

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A vaccine useful ~~in treating diseases caused by~~
~~*Propionibacterium acnes* to generate an immune response to a lipase of~~
Propionibacterium acnes in a recipient thereof, said vaccine comprising at least one
vector that comprises at least one nucleotide sequence encoding ~~[[a]]~~ said lipase or
fragment thereof derived from said *Propionibacterium acnes*, ~~and wherein said lipase or~~
~~fragment thereof is capable of generating an immune response in a recipient thereof.~~

Claims 2, 3 (canceled)

Claim 4 (original): The vaccine of claim 1, wherein said vector comprises naked DNA,
a recombinant viral vector, or a combination of both.

Claim 5 (previously presented): The vaccine of claim 1, wherein said vector is selected
from the group consisting of adenovirus, adeno-associated virus, herpes virus, vaccinia
and RNA viruses.

Claim 6 (previously presented): The vaccine of claim 5, wherein said vector is an adenovirus.

Claim 7 (original): The vaccine of claim 1, wherein said vector further comprises a nucleotide sequence encoding an adjuvant.

Claim 8 (original): The vaccine of claim 7, wherein said adjuvant is a cytokine.

Claim 9 (original): The vaccine of claim 8, wherein said cytokine is IL-2, IL-12, or both.

Claim 10 (previously presented): The vaccine of claim 1, wherein said nucleotide sequence encodes said lipase.

Claim 11 (currently amended): A method of ~~treating a disease caused by~~
~~*Propionibacterium acnes*~~ generating an immune response in a recipient, said method comprising obtaining a vaccine comprising at least one vector that comprises at least one nucleotide sequence encoding a lipase or fragment thereof derived from said *Propionibacterium acnes*; and administering said vaccine to a recipient in need thereof.

Claim 12 (previously presented): The method of claim 11, wherein said administering comprises routes of administration comprising oral, intravenous, intramuscular, transcutaneous, subcutaneous, aerosol, intraperitoneal, or combinations thereof.

Claim 13 (original): The method of claim 12, wherein administering comprises transcutaneous administration.

Claim 14 (original): The method of claim 13, wherein said transcutaneous administration comprises applying said at least one vector to a patch, and adhering said patch to skin of said recipient.

Claims 15, 16 (canceled)

Claim 17 (original): The method of claim 11, wherein said at least one vector comprises naked DNA, a recombinant viral vector, or a combination of both.

Claim 18 (previously amended): The method of claim 11, wherein said vector is an adenovirus.

Claim 19 (previously presented): A kit comprising a container and one or more patches, wherein said patches have disposed thereon at least one vector comprising a nucleotide sequence encoding a lipase or fragment thereof derived from *Propionibacterium acnes*.

Claim 20 (canceled)

Claim 21 (original): The vaccine of claim 1, wherein said vaccine is in the form of an aqueous solution.

Claim 22 (original): The vaccine of claim 1, wherein said vaccine further comprises a nucleotide sequence encoding a co-stimulatory molecule.

Claim 23 (original): The vaccine of claim 22, wherein said co-stimulatory molecule comprises a B7 protein, a CD40 protein, or both.

Claim 24 (previously presented): A method of cosmetically improving the appearance of a person's skin who is suffering from *acnes vulgaris*, said method comprising the steps of obtaining a composition comprising a mixture of at least one vector that comprises at least one nucleotide sequence encoding a lipase or fragment thereof derived from *P. acnes*, and a cosmetic agent; and administering said composition to said person.

Claim 25 (previously presented): A composition comprising an adenovirus vector that comprises a nucleotide sequence encoding a lipase derived from *Propionibacterium acnes*.